

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/080,917A
Source: IFC/16
Date Processed by STIC: 11/26/04

ENTERED



IFW16

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/080,917A

DATE: 11/26/2004
 TIME: 09:01:47

Input Set : A:\09598-006001.txt
 Output Set: N:\CRF4\11262004\J080917A.raw

4 <110> APPLICANT: Cadet, Patrick
 5 Stefano, George B.
 7 <120> TITLE OF INVENTION: Opiate Receptors
 10 <130> FILE REFERENCE: 09598-006001
 12 <140> CURRENT APPLICATION NUMBER: US 10/080,917A
 13 <141> CURRENT FILING DATE: 2002-02-22
 15 <150> PRIOR APPLICATION NUMBER: US 60/270,479
 16 <151> PRIOR FILING DATE: 2001-02-22
 18 <150> PRIOR APPLICATION NUMBER: US 60/336,677
 19 <151> PRIOR FILING DATE: 2001-12-05
 21 <160> NUMBER OF SEQ ID NOS: 29
 23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 81
 27 <212> TYPE: DNA
 28 <213> ORGANISM: Homo Sapiens
 30 <400> SEQUENCE: 1
 31 aattattata taattcatag atgttgcgc aataccctc ttatctca aaagccatgc 60
 32 ttgctctgg tctgtgatta a 81
 34 <210> SEQ ID NO: 2
 35 <211> LENGTH: 26
 36 <212> TYPE: PRT
 37 <213> ORGANISM: Homo Sapiens
 39 <220> FEATURE:
 40 <223> OTHER INFORMATION: Peptide fragment
 42 <400> SEQUENCE: 2
 43 Asn Tyr Tyr Ile Ile His Arg Leu Cys Cys Asn Thr Pro Leu Ile Ser
 44 1 5 10 15
 45 Gln Lys Pro Val Leu Leu Trp Phe Cys Asp
 46 20 25
 48 <210> SEQ ID NO: 3
 49 <211> LENGTH: 262
 50 <212> TYPE: DNA
 51 <213> ORGANISM: Homo Sapiens
 53 <220> FEATURE:
 54 <221> NAME/KEY: misc_feature
 55 <222> LOCATION: (1)...(262)
 56 <223> OTHER INFORMATION: n = A,T,C or G
 58 <400> SEQUENCE: 3
 59 aattattata taattcatag atgttgcgc aataccctc ttatctca aaagccatgc 60
 60 ttgctctgg tctgtgatta aagagagagg gtgagtgc tgccactgt ggtcatggat 120
 W--> 61 gcaagatatt cacagaaaat tagcatcata gaaaaaaaaa naaaaaaaaa aaaaaaaaaa 180
 W--> 62 ncatgtcgcc cgccctcgcc aaacatcgaa tcgagcatgc atcttagggcg gccaaattccg 240

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W--> 63 cccctctccc cccnngcnnt tt	262
65 <210> SEQ ID NO: 4	
66 <211> LENGTH: 945	
67 <212> TYPE: DNA	
68 <213> ORGANISM: Homo Sapiens	
70 <400> SEQUENCE: 4	
71 atgaagactg ccaccaacat ctacatttc aaccttgctc tggcagatgc cttagccacc	60
72 agtacctgc ccttccagag tgtgaattac ctaatggaa catggccatt tggaaccatc	120
73 ctttgcaga tagtgatctc catagattac tataacatgt tcaccagcat attcacccctc	180
74 tgcaccatga gtgttgatcg atacattgca gtctgccacc ctgtcaaggc cttagatttc	240
75 cgtactcccc gaaatgcca aatttatcaat gtctgcaact ggatccctc ttcagccatt	300
76 ggtttcctg taatgttcat ggctacaaca aaatacaggc aagggttccat agattgtaca	360
77 ctaacattct ctcattcaac ctggtaactgg gaaaacctgc tgaagatctg tgtttcatc	420
78 ttgccttca ttatgcccgt gtcattcatt accgtgtct atggactgtat gatcttgcgc	480
79 ctcagagtgc tccgcattgtc ctctggctcc aaagaaaagg acaggaatct tcgaaggatc	540
80 accaggatgg tgctgggtt ggtggctgtt ttcattgtct gtggactcc cattcacatt	600
81 tacgtcatca tttaaagcctt ggttacaatac ccagaaacta cgttccagac tgtttcttgg	660
82 cacttctgca ttgctctagg ttacacaaac agtcgcctca acccagtcc ttatgcattt	720
83 ctggatgaaa acttcaaacg atgcttcaga gagttctgtt tcccaacctc ttccaaacatt	780
84 gagcaacaaa actccactcg aattcgttag aacactagag accaccctc cacggccaat	840
85 acagtggata gaactaatca tcagaattat tatataattc atagatgttg ctgcaataacc	900
86 cctcttattt ctcaaaagcc agtcttgctc tggttctgtt attaa	945
88 <210> SEQ ID NO: 5	
89 <211> LENGTH: 314	
90 <212> TYPE: PRT	
91 <213> ORGANISM: Homo Sapiens	
93 <400> SEQUENCE: 5	
94 Met Lys Thr Ala Thr Asn Ile Tyr Ile Phe Asn Leu Ala Leu Ala Asp	
95 1 5 10 15	
96 Ala Leu Ala Thr Ser Thr Leu Pro Phe Gln Ser Val Asn Tyr Leu Met	
97 20 25 30	
98 Gly Thr Trp Pro Phe Gly Thr Ile Leu Cys Lys Ile Val Ile Ser Ile	
99 35 40 45	
100 Asp Tyr Tyr Asn Met Phe Thr Ser Ile Phe Thr Leu Cys Thr Met Ser	
101 50 55 60	
102 Val Asp Arg Tyr Ile Ala Val Cys His Pro Val Lys Ala Leu Asp Phe	
103 65 70 75 80	
104 Arg Thr Pro Arg Asn Ala Lys Ile Ile Asn Val Cys Asn Trp Ile Leu	
105 85 90 95	
106 Ser Ser Ala Ile Gly Leu Pro Val Met Phe Met Ala Thr Thr Lys Tyr	
107 100 105 110	
108 Arg Gln Gly Ser Ile Asp Cys Thr Leu Thr Phe Ser His Pro Thr Trp	
109 115 120 125	
110 Tyr Trp Glu Asn Leu Leu Lys Ile Cys Val Phe Ile Phe Ala Phe Ile	
111 130 135 140	
112 Met Pro Val Leu Ile Ile Thr Val Cys Tyr Gly Leu Met Ile Leu Arg	
113 145 150 155 160	
114 Leu Lys Ser Val Arg Met Leu Ser Gly Ser Lys Glu Lys Asp Arg Asn	
115 165 170 175	

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116 Leu Arg Arg Ile Thr Arg Met Val Leu Val Val Val Ala Val Phe Ile
 117 180 185 190
 118 Val Cys Trp Thr Pro Ile His Ile Tyr Val Ile Ile Lys Ala Leu Val
 119 195 200 205
 120 Thr Ile Pro Glu Thr Thr Phe Gln Thr Val Ser Trp His Phe Cys Ile
 121 210 215 220
 122 Ala Leu Gly Tyr Thr Asn Ser Cys Leu Asn Pro Val Leu Tyr Ala Phe
 123 225 230 235 240
 124 Leu Asp Glu Asn Phe Lys Arg Cys Phe Arg Glu Phe Cys Ile Pro Thr
 125 245 250 255
 126 Ser Ser Asn Ile Glu Gln Gln Asn Ser Thr Arg Ile Arg Gln Asn Thr
 127 260 265 270
 128 Arg Asp His Pro Ser Thr Ala Asn Thr Val Asp Arg Thr Asn His Gln
 129 275 280 285
 130 Asn Tyr Tyr Ile Ile His Arg Leu Cys Cys Asn Thr Pro Leu Ile Ser
 131 290 295 300
 132 Gln Lys Pro Val Leu Leu Trp Phe Cys Asp
 133 305 310
 135 <210> SEQ ID NO: 6
 136 <211> LENGTH: 1431
 137 <212> TYPE: DNA
 138 <213> ORGANISM: Homo Sapiens
 140 <400> SEQUENCE: 6

141	atgtcagatg ctcagctcg	tcccccgc	ctgacgctcc	tctctgtctc	agccaggact	60		
142	ggtttctgtta	agaaaacagca	ggagctgtgg	cagccgcga	aggaagccgc	tgaggcgctt	120	
143	ggAACCCGAA	aagtctcggt	gctcttggt	acctcgcaca	gcggtgcccc	cccgcccg	180	
144	agtaccatgg	acagcagcgc	tgc	ccccccacg	aacgccagca	attgcactga	tgcccttggcg	240
145	tactcaagtt	gtctccca	accccagccc	ggttccttggg	tcaacttgc	ccacttagat	300	
146	ggcaacctgt	ccgaccatg	cggtccga	cgcacccgacc	tggccggag	agacagcctg	360	
147	tgc	ccggcagtcc	ctccatgatc	acggccatca	cgatcatggc	cctctactcc	420	
148	atcgtgtgcg	tgg	ttccttggct	ttcggaaac	tgtatgtat	tgtcagatac	480	
149	accaagatga	agactgcccac	caacatctac	atttcaacc	ttgctctggc	agatgccta	540	
150	gccaccatgt	ccctggcctt	ccagatgtg	aattaccaa	tggaaacatg	gccatttgga	600	
151	accatcctt	gcaagatgt	gatctccata	gattactata	acatgttac	cagcatattc	660	
152	accctctgca	ccatgagtgt	tgatcgatac	attgcagtct	gccaccctgt	caaggccta	720	
153	gatttccgt	ctccccgaaa	tgc	aaaaatt	atcaatgtct	gcaactggat	cctctttca	780
154	gccattggtc	ttcctgttat	gttcatggct	acaacaaaat	acaggcaagg	ttccatagat	840	
155	tgtacactaa	cattctctca	tccaacctgg	tactggaaa	acctgctgaa	gatctgttt	900	
156	ttcatcttcg	catttcattat	gccagtgtc	atcattaccg	tgtctatgg	actgatgatc	960	
157	ttgcgcctca	agagtgtccg	catgtctct	ggctccaaag	aaaaggacag	aatcttcg	1020	
158	aggatcacca	ggatggtgct	ggtgggtgg	gctgtttca	tctgtctgt	gactcccatt	1080	
159	cacatttacg	tcatcattaa	agccttgggt	acaatcccag	aaactacgtt	ccagactgtt	1140	
160	tcttggca	tctgtttac	acaacacat	gcctcaaccc	agtcccttat	1200		
161	gcatttctgg	atgaaaactt	caaacatgc	ttcagagagt	tctgtatccc	aacctttcc	1260	
162	aacatttgagc	aacaaaactc	cactcgaatt	cgtcagaaca	ctagagacca	cccctccacg	1320	
163	gccaatacag	tggatagaac	taatcatcag	aattattata	taattcatag	atgttgctgc	1380	
164	aataccctc	ttatttctca	aaagccagtc	ttgctctgg	tctgtgatta	a	1431	
166	<210>	SEQ ID NO:	7					
167	<211>	LENGTH:	476					

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PATENT APPLICATION: US/10/080,917A TIME: 09:01:47

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168 <212> TYPE: PRT
 169 <213> ORGANISM: Homo Sapiens
 171 <400> SEQUENCE: 7
 172 Met Ser Asp Ala Gln Leu Gly Pro Leu Arg Leu Thr Leu Leu Ser Val
 173 1 5 10 15
 174 Ser Ala Arg Thr Gly Phe Cys Lys Lys Gln Gln Glu Leu Trp Gln Arg
 175 20 25 30
 176 Arg Lys Glu Ala Ala Glu Ala Leu Gly Thr Arg Lys Val Ser Val Leu
 177 35 40 45
 178 Leu Ala Thr Ser His Ser Gly Ala Arg Pro Ala Val Ser Thr Met Asp
 179 50 55 60
 180 Ser Ser Ala Ala Pro Thr Asn Ala Ser Asn Cys Thr Asp Ala Leu Ala
 181 65 70 75 80
 182 Tyr Ser Ser Cys Ser Pro Ala Pro Ser Pro Gly Ser Trp Val Asn Leu
 183 85 90 95
 184 Ser His Leu Asp Gly Asn Leu Ser Asp Pro Cys Gly Pro Asn Arg Thr
 185 100 105 110
 186 Asp Leu Gly Gly Arg Asp Ser Leu Cys Pro Pro Thr Gly Ser Pro Ser
 187 115 120 125
 188 Met Ile Thr Ala Ile Thr Ile Met Ala Leu Tyr Ser Ile Val Cys Val
 189 130 135 140
 190 Val Gly Leu Phe Gly Asn Phe Leu Val Met Tyr Val Ile Val Arg Tyr
 191 145 150 155 160
 192 Thr Lys Met Lys Thr Ala Thr Asn Ile Tyr Ile Phe Asn Leu Ala Leu
 193 165 170 175
 194 Ala Asp Ala Leu Ala Thr Ser Thr Leu Pro Phe Gln Ser Val Asn Tyr
 195 180 185 190
 196 Leu Met Gly Thr Trp Pro Phe Gly Thr Ile Leu Cys Lys Ile Val Ile
 197 195 200 205
 198 Ser Ile Asp Tyr Tyr Asn Met Phe Thr Ser Ile Phe Thr Leu Cys Thr
 199 210 215 220
 200 Met Ser Val Asp Arg Tyr Ile Ala Val Cys His Pro Val Lys Ala Leu
 201 225 230 235 240
 202 Asp Phe Arg Thr Pro Arg Asn Ala Lys Ile Ile Asn Val Cys Asn Trp
 203 245 250 255
 204 Ile Leu Ser Ser Ala Ile Gly Leu Pro Val Met Phe Met Ala Thr Thr
 205 260 265 270
 206 Lys Tyr Arg Gln Gly Ser Ile Asp Cys Thr Leu Thr Phe Ser His Pro
 207 275 280 285
 208 Thr Trp Tyr Trp Glu Asn Leu Leu Lys Ile Cys Val Phe Ile Phe Ala
 209 290 295 300
 210 Phe Ile Met Pro Val Leu Ile Ile Thr Val Cys Tyr Gly Leu Met Ile
 211 305 310 315 320
 212 Leu Arg Leu Lys Ser Val Arg Met Leu Ser Gly Ser Lys Glu Lys Asp
 213 325 330 335
 214 Arg Asn Leu Arg Arg Ile Thr Arg Met Val Leu Val Val Val Ala Val
 215 340 345 350
 216 Phe Ile Val Cys Trp Thr Pro Ile His Ile Tyr Val Ile Ile Lys Ala
 217 355 360 365

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218 Leu Val Thr Ile Pro Glu Thr Thr Phe Gln Thr Val Ser Trp His Phe
 219 370 375 380
 220 Cys Ile Ala Leu Gly Tyr Thr Asn Ser Cys Leu Asn Pro Val Leu Tyr
 221 385 390 395 400
 222 Ala Phe Leu Asp Glu Asn Phe Lys Arg Cys Phe Arg Glu Phe Cys Ile
 223 405 410 415
 224 Pro Thr Ser Ser Asn Ile Glu Gln Gln Asn Ser Thr Arg Ile Arg Gln
 225 420 425 430
 226 Asn Thr Arg Asp His Pro Ser Thr Ala Asn Thr Val Asp Arg Thr Asn
 227 435 440 445
 228 His Gln Asn Tyr Tyr Ile Ile His Arg Leu Cys Cys Asn Thr Pro Leu
 229 450 455 460
 230 Ile Ser Gln Lys Pro Val Leu Leu Trp Phe Cys Asp
 231 465 470 475

233 <210> SEQ ID NO: 8

234 <211> LENGTH: 1245

235 <212> TYPE: DNA

236 <213> ORGANISM: Homo Sapiens

238 <400> SEQUENCE: 8

239 atggacagca	gcgctgcccc	cacgaacgcc	agcaattgca	ctgatgcctt	ggcgtactca	60
240 agttgctccc	cagcacccag	cccccggttc	tgggtcaact	tgtcccactt	agatggcaac	120
241 ctgtccgacc	catgcgggcc	gaaccgcacc	gacctggcg	ggagagacag	cctgtgccct	180
242 ccgaccggca	gtccctccat	gatcacggcc	atcacgatca	tggccctcta	ctccatcg	240
243 tgcgtggtag	ggctcttcgg	aaaccttcgt	gtcatgtatg	tgattgtcag	atacaccaag	300
244 atgaagactg	ccaccaaact	ctacattttc	aaccttgctc	tggcagatgc	cttagccacc	360
245 agtaccctgc	ccttcagag	tgtgaattac	ctaattggaa	catggccatt	tggaccatc	420
246 ctttgcaaga	tagtgatctc	catagattac	tataacatgt	tcaccagcat	attcacccctc	480
247 tgcaccatga	gtgttgatcg	atacattgca	gtctgccacc	ctgtcaaggc	cttagatttc	540
248 cgtactcccc	gaaatgccaa	aattatcaat	gtctgcaact	ggatcctctc	ttcagccatt	600
249 ggtcttcctg	taatgttcat	gctacaaca	aaatacaggc	aagggtccat	agattgtaca	660
250 ctaacattct	ctcatccaac	ctggtaactgg	aaaaacctgc	tgaagatctg	tgttttcatc	720
251 ttgccttca	ttatgccagt	gctcatcatt	accgtgtgct	atggactgat	gatcttgcgc	780
252 ctcaagagtg	tccgcatgct	ctctggctcc	aaagaaaaagg	acaggaatct	tcgaaggatc	840
253 accaggatgg	tgctgggtggt	ggtggctgtg	ttcatcgct	gctggactcc	cattcacatt	900
254 tacgtcatca	ttaaagcctt	ggttacaatc	ccagaaaacta	cggtccagac	tgtttcttgg	960
255 cacttctgca	ttgctctagg	ttacacaaaac	agctgcctca	accagtcct	ttatgcattt	1020
256 ctggatgaaa	actccaaacg	atgcttcaga	gagttctgta	tcccaacccctc	ttccaaacatt	1080
257 gagcaacaaa	actccactcg	aattcgttag	aacactagag	accacccctc	cacggccaat	1140
258 acagtggata	gaactaatca	tcagaatttat	tatataattc	atagatgtg	ctgcaataacc	1200
259 cctcttattt	ctcaaaaagcc	agtcttgctc	tggttctgtg	attaa		1245

261 <210> SEQ ID NO: 9

262 <211> LENGTH: 414

263 <212> TYPE: PRT

264 <213> ORGANISM: Homo Sapiens

266 <400> SEQUENCE: 9

267 Met Asp Ser Ser Ala Ala Pro Thr Asn Ala Ser Asn Cys Thr Asp Ala

268 1 5 10 15

269 Leu Ala Tyr Ser Ser Cys Ser Pro Ala Pro Ser Pro Gly Ser Trp Val

270 20 25 30

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 11/26/2004
PATENT APPLICATION: US/10/080,917A TIME: 09:01:48

Input Set : A:\09598-006001.txt
Output Set: N:\CRF4\11262004\J080917A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 160,161,162,181,255,258,259
Seq#:21; N Pos. 533,808,809,810,829,903,906,907
Seq#:22; N Pos. 112
Seq#:23; N Pos. 1091,1366,1367,1368,1387,1461,1464,1465
Seq#:29; Xaa Pos. 2,4,5

VERIFICATION SUMMARY

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Input Set : A:\09598-006001.txt

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L:61 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:120
L:62 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:180
L:63 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:240
L:580 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:480
L:585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:780
L:587 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:900
L:601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:60
L:634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:1080
L:638 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:1320
L:639 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:1380
L:640 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:1440
L:708 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:712 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:29
L:716 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:29
L:720 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:29
L:721 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0